

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 03292470
PUBLICATION DATE : 24-12-91

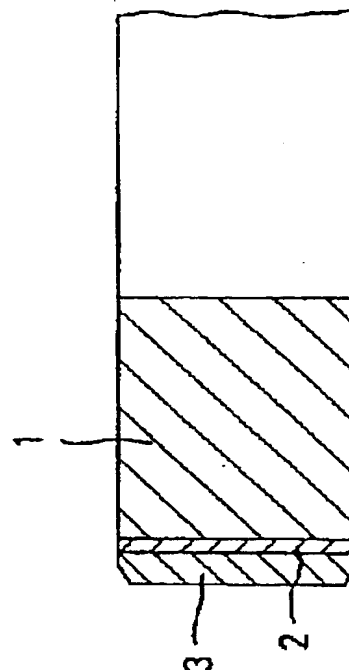
APPLICATION DATE : 06-04-90
APPLICATION NUMBER : 02090086

APPLICANT : RIKEN CORP;

INVENTOR : KONUKI TORU;

INT.CL. : F16J 9/26 C23C 4/08 C25D 15/02
F02F 1/00 F02F 5/00 F16J 10/04

TITLE : SLIDER



ABSTRACT : PURPOSE: To improve the extent of wear resistance by containing phosphorus in a composite membrane in a piston ring as a second sliding member, in a slider being made up of both first and second sliding members with respective sliding surfaces being made contact, and slidden with each other.

CONSTITUTION: A sliding surface of a cylinder or a first sliding member of a slider is formed by a sprayed layer of an Fe-Mo system consisting in a porous structure and excellent in oil holdability, namely, a sprayed layer made up of Fe in 40-70wt.% and Mo in the rest. Likewise, a composite film layer 3, dispersing a chromium oxide grain of 0.5-10 μ m in mean grain size in a range of 10-30% in volumn percentage into a ground layer 2 of nickel - phoshor alloy plating made up of phosphorus of 0.2-10wt.% and nickel of the rest, is formed on a sliding surface of a piston ring 1 or a second sliding member sliding on the sliding surface of this first sliding member.

COPYRIGHT: (C)1991,JPO&Japio

SCANNED
DATE: 1/20/05
r 0279231

BEST AVAILABLE COPY